

Mandanda

SIC 15
Howland
15-20 Sept
1966

✓ ADP
Red + Tropicbird

✓ ADP
Done C PTT

10 Arrived Sept. 15, 1800
Sept 16 07⁰⁰ - Depart
5 { Depart Sept. 18, 1800
5 { Arrive Sept. 19
Depart Sept 20

Sept. 15 1966 Howland

Sooty Tern Recoveries

953-96167 chick
— 96101 "

~~782~~ ~~7547~~

✓ 773 21175 Ad

953-96104 C

Lesser Frigatebird

~~772 52241~~

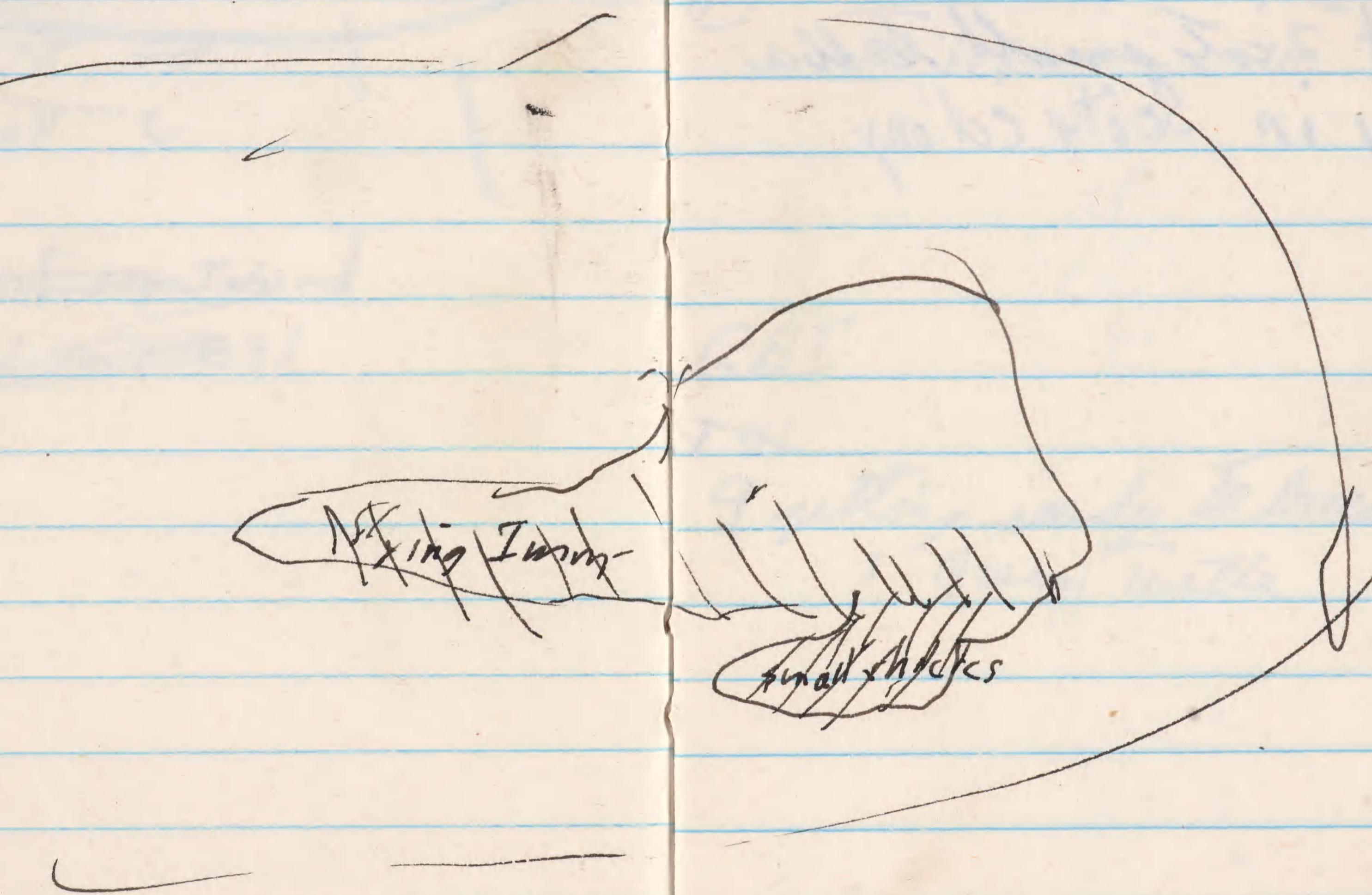
15 Sept 1966
Howland

Recoveries

Lesser Frigatebird

778-52241
777 51629

Howland Sooty Tern
6 in m ~~at hills~~



15 Sept

- 1 Noddy in Colony
- 1 Curlew
- 1 G.P.
- 3 Turnstone
- 1 Coot + 2 cots small Tabbies
- 1 noddy in Sooty colony

16 Sept shorebird count

BTH C	G.P.	WT	RT	C.N.
1 XX	1 XX	1 XX	1 XX	1
1 XX	1 XX	1 XX	1 XX	0
1 XX	1 XX	1 XX	1 XX	
1 XX	1 XX	1 XX	1 XX	

GBI

1 ~~XX~~

9 getting ready to breed (swirling)
1 Green Turtle

BFB Booby Hauland 16 Sept

F.m

4 CGI 2 141
111 111
⑯ 19
8 28
26 50

Reh Chkd
111
7
4
14

5 small chick to tree
11 HLL
5 HLL
4 HLL
111 ⑯
11 HLL
111 30
11 56
11 15
11 101
11 25
11 206

25
14
90
11
101
206
101
408

BB

16 Sept

2 eggs laid 5. chick L. chick Tru

11

1111 1

~~111~~ 111

1111 1

3 eggs

11

16 Sept Bands Received

863-53001-53500

53500 - 50.000

Returned

not used

~~16 Sept 1966 Chicks~~
~~Sooty Tern V Banded~~
~~863-53001-53500~~
~~+ streamers~~

Tropic bird

Howland I.S. 17 Sept

1 - empty

31 - "

4 - "

5 - "

6 - chick imm

9 - empty

8 - chick imm

35 - empty

7 - chick imm

43 - empty

44 - imm

34. L. chick -

37 - empty

12 - "

39 - empty

38 - " (O) on nothing

14 L. chick (O)

15 - imm

40 ch. chick

(=)

17 - imm

45 - empty

16 - , (II) T

20 - imm

42 - empty

18 - "

26 - imm

41 - empty

46 - empty

27 - "

24 - " (II) T

47 - egg

25 - empty

28 - "

48 - imm

49 - imm

W on notebook

64 = 90:

✓ADP Sept. 17 1966

Red-Tailed

Tropic bird Returns Howland

~~625~~ ~~86205~~ - S chick

625 ~~86205~~ - egg ✓

~~✓ 86215~~ - egg ✓

~~✓ 85740~~

~~✓ 85750~~ - L chick ✓

~~✓ 86235~~ - L chick ✓

645-23324 - empty - ⑥

625-~~86213~~ - L. chick ✓

595-64018
- 64015

- 64009

625 ~~✓ 85770~~ - ♀ return

~~✓ 86755~~ - egg ✓

Sept. 17 1966

New band

Red-Tailed + tropicbird

~~615-11403 - egg~~

~~11401 - "~~

~~11406 - Imm~~

~~11406 - Ad pr. with #16~~

~~11407 - egg~~

~~11408 - imm~~

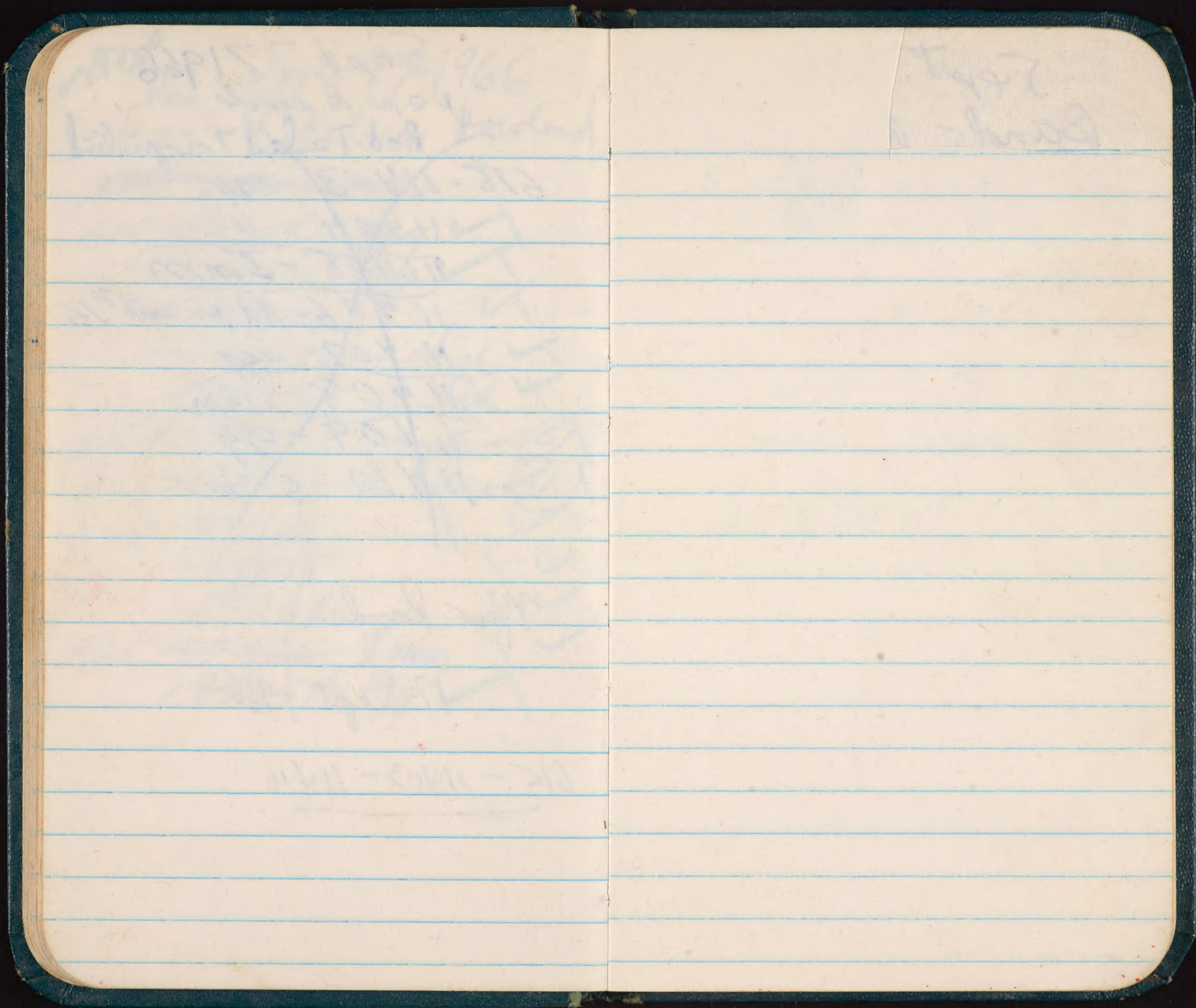
~~11409 - egg~~

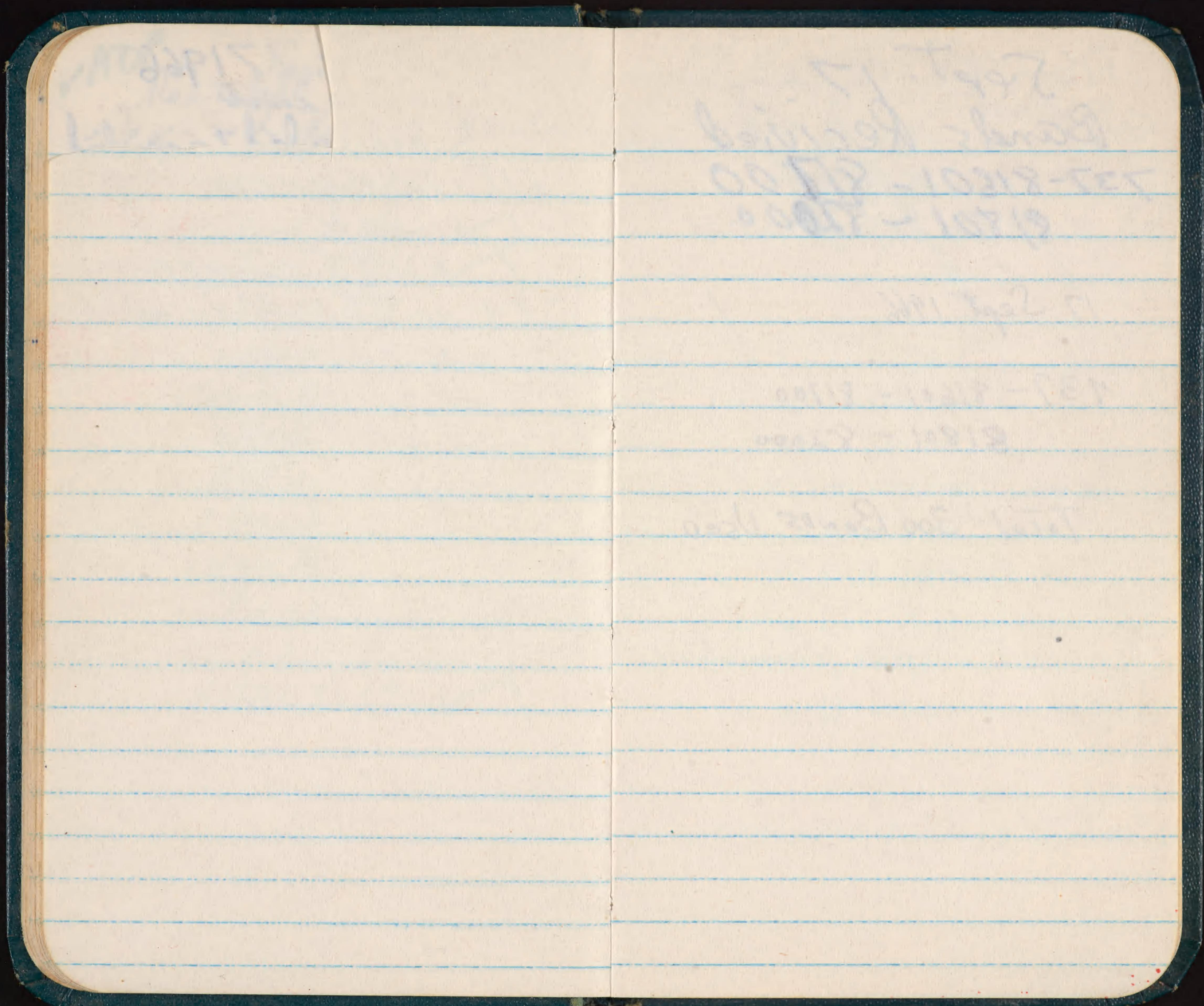
~~11410 - S. chick~~

New Bands

17 Sept 1966

615 - 11403 - 11416





Sep^t. 17

Bands Received

737-81601 - 81700
81801 - 82000

17 Sept. 1966

737-81601 - 81700
81801 - 82000

Total 300 Bands Used

17 Sept 1966 Banding
Howland

Lesser Frigate Ad ♀ on egg

737-81861-~~81886~~ ✓

~ 81887-~~81900~~-imm

17 Sept 1966 Howland
Ferry up.

✓ Return

~~737-5162-3 ♀ egg~~

17 Sept. 1966

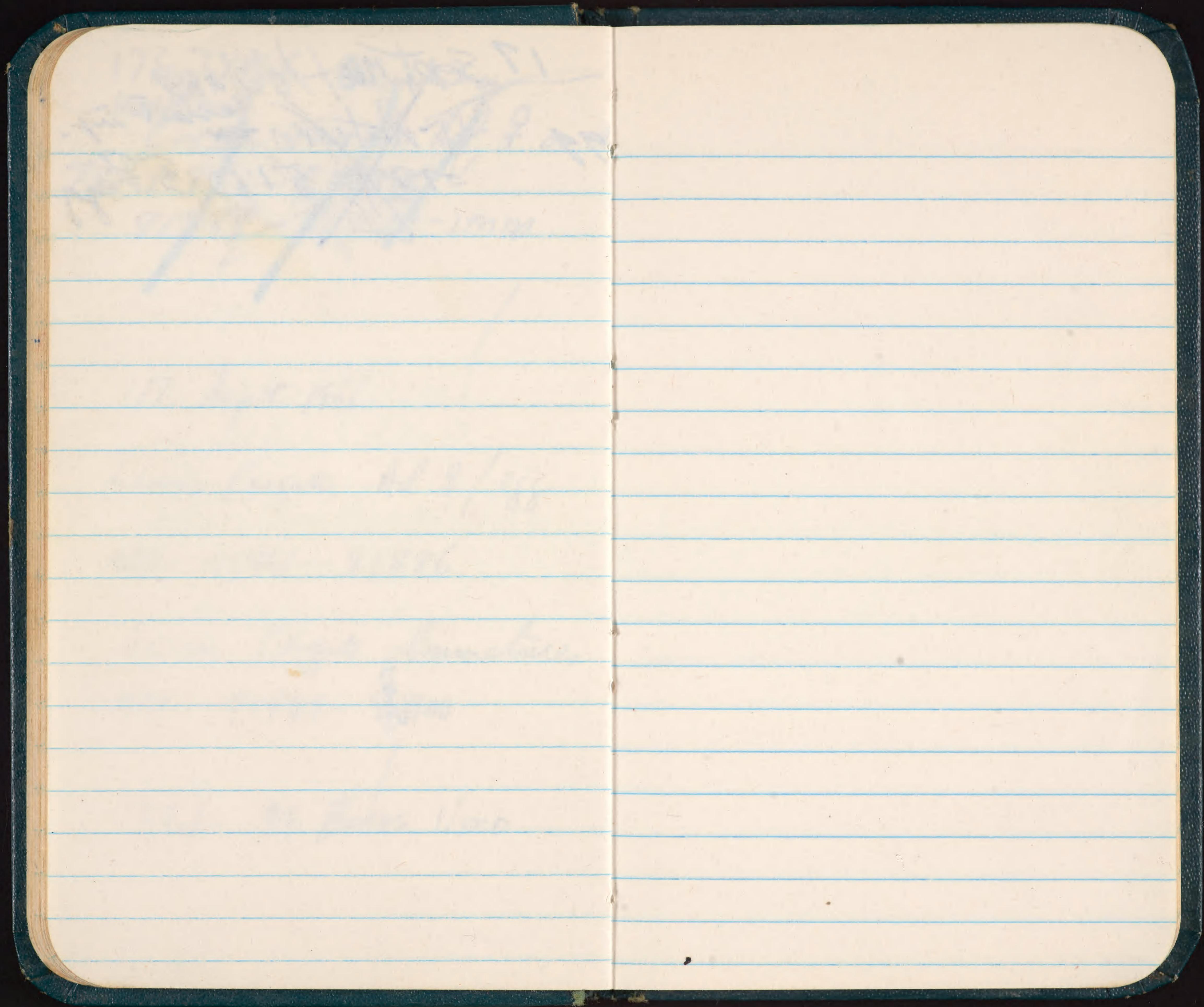
Lesser Frigate Ad ♀ / egg

737- 81861- 81886

Lesser Frigate immatures

737- 81887- 81900

Total - 39 Bands Used



Pterodroma hypoleuca - 2B. 28W.

P. leucoptera - 3

P. cookii - 2

P. exterma - 2

P. neglecta - 1

~~*P. battersbyi*~~ +

P. rostrata 1

P. alba - 4

P. inexpectata - 1

Bulweria bulweria - 4

Puffinus pacificus - 2d2L

P. nativitatis - 4

P. tenuirostris - 2

P. griseus - 2

P. carneipes - 2

P. puffinus - 2

P. lherminieri - 2

P. bulleri - 1

Oceanodroma markhami - 4

O. castro - 2

O. Leucorhoa

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

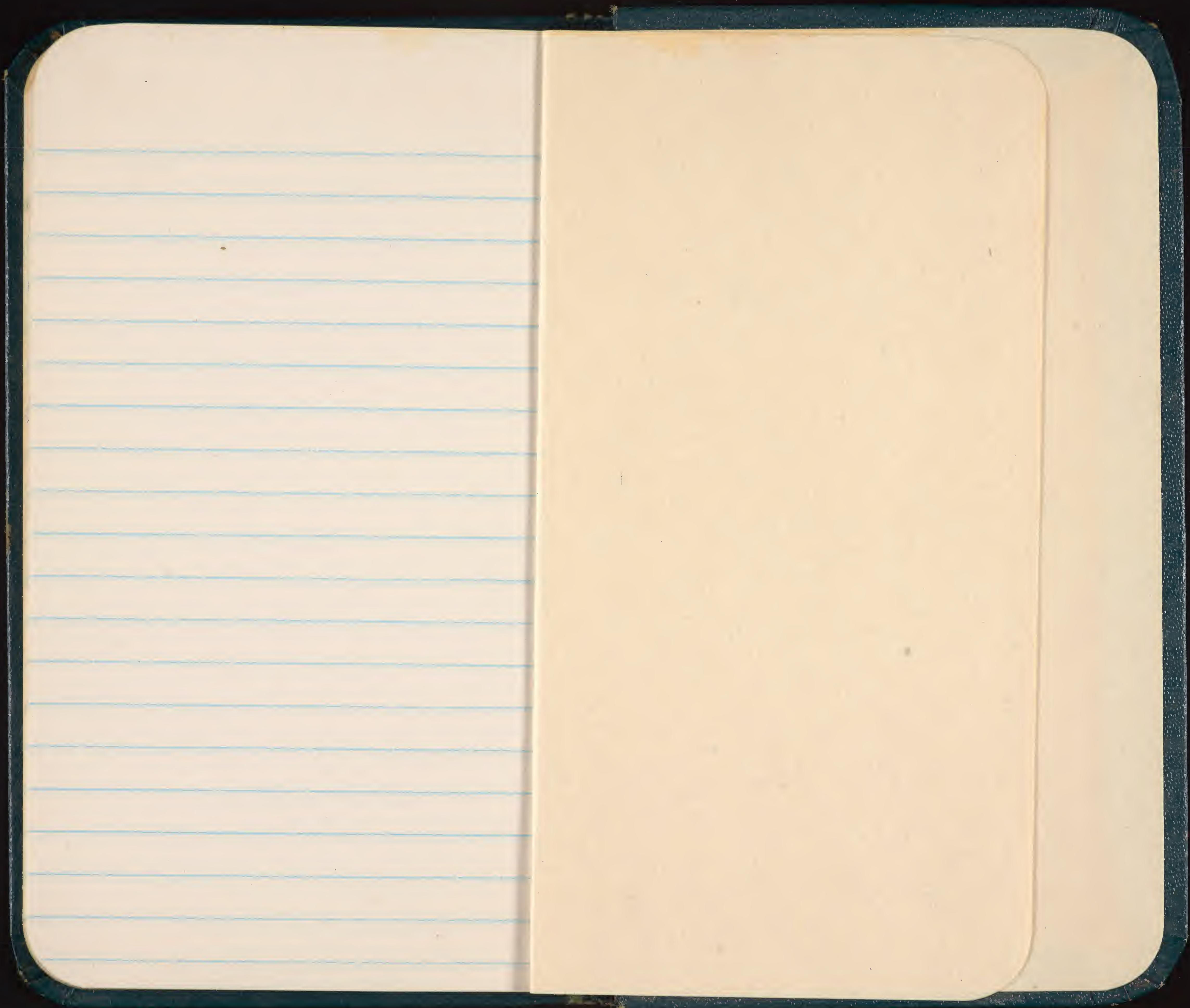
496

497

498

499

500





7530-222-0078
FEDERAL SUPPLY SERVICE

GPO 043-16-78124-2

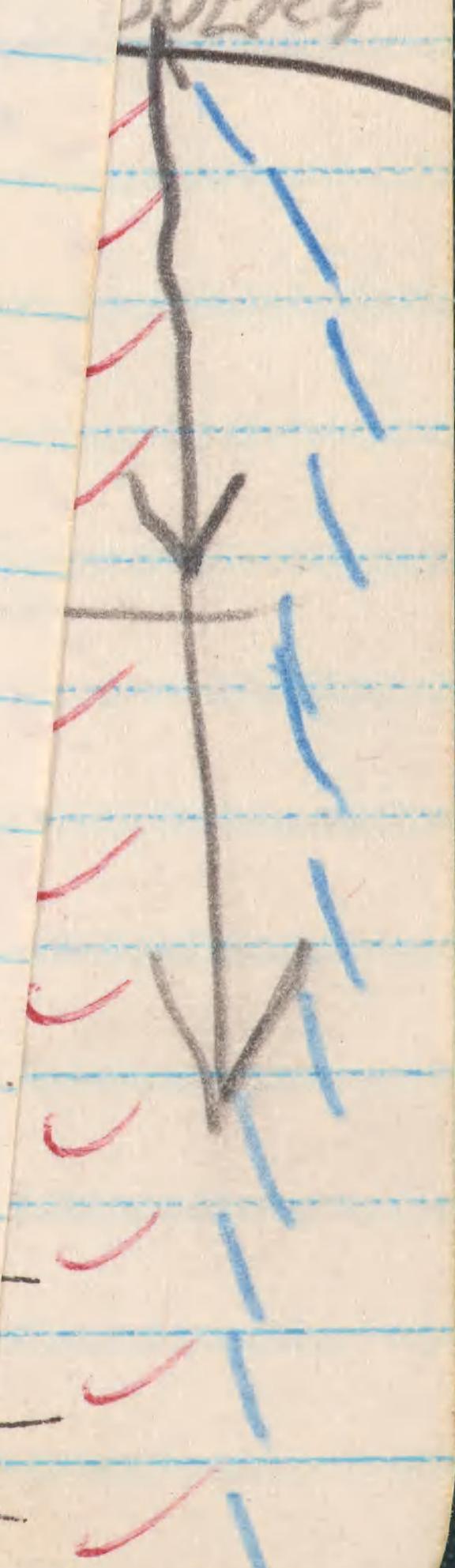
Oppenheimer

SIC #75
Howland
15-20 Sept 1966

✓ ADP
CPA
Done 12/21/68

15 SEPT
106
OLER

OLDER



JADP

15 SEPT
1906
CHANDLER

LAND 1800

3 RT over camp

1 GP "

grass along head
coming back

96

ST. Ad STREAMER RECOVERY

953-06265 ✓

ST CHICK " 95385 ✓

" " 96185 ✓

" " 96762 ✓

Ad 00

CHICK " 01855 ✓

" " 95099 ✓

" " 95269 ✓

" " 95020 ✓

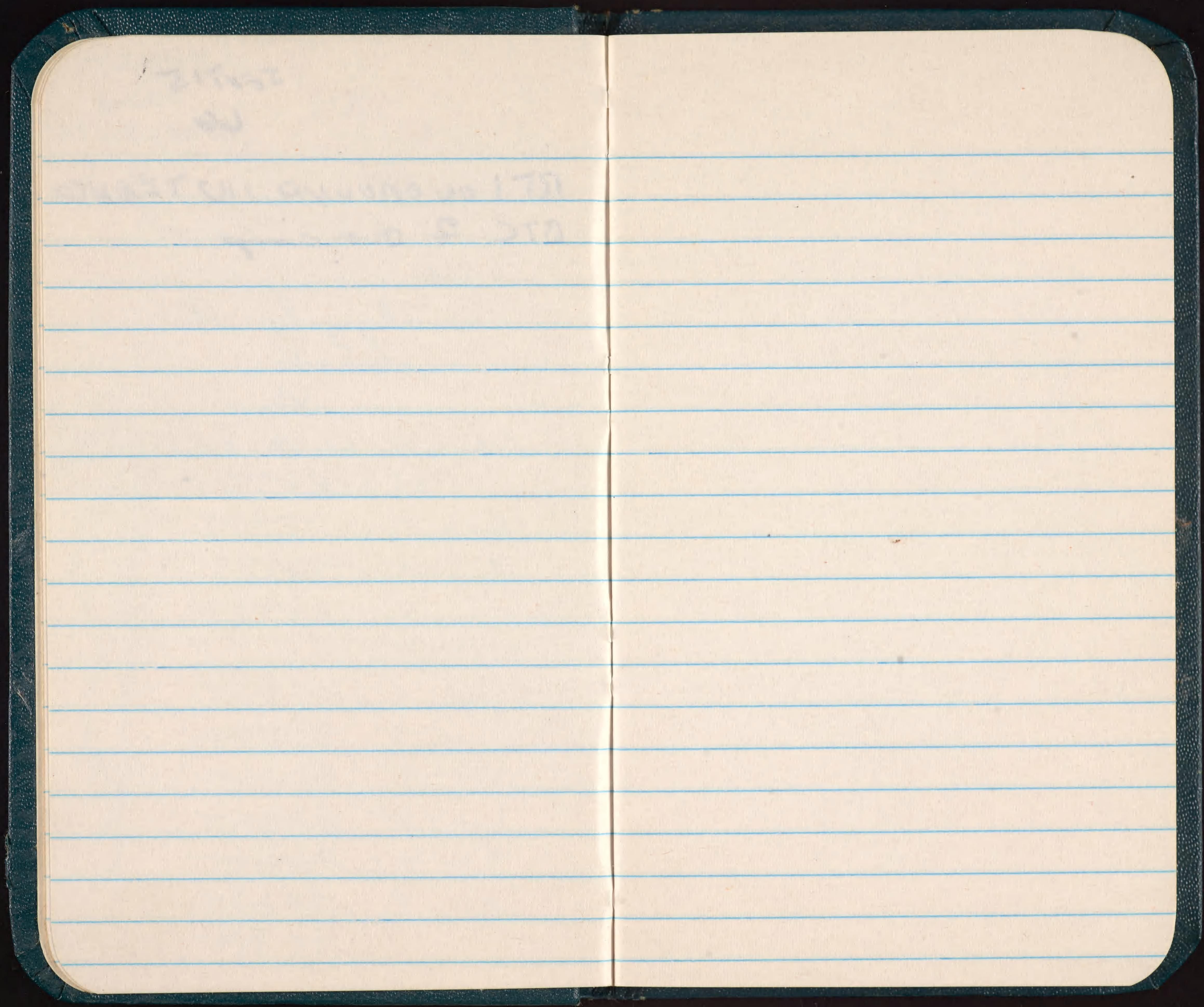
" " 96909 ✓

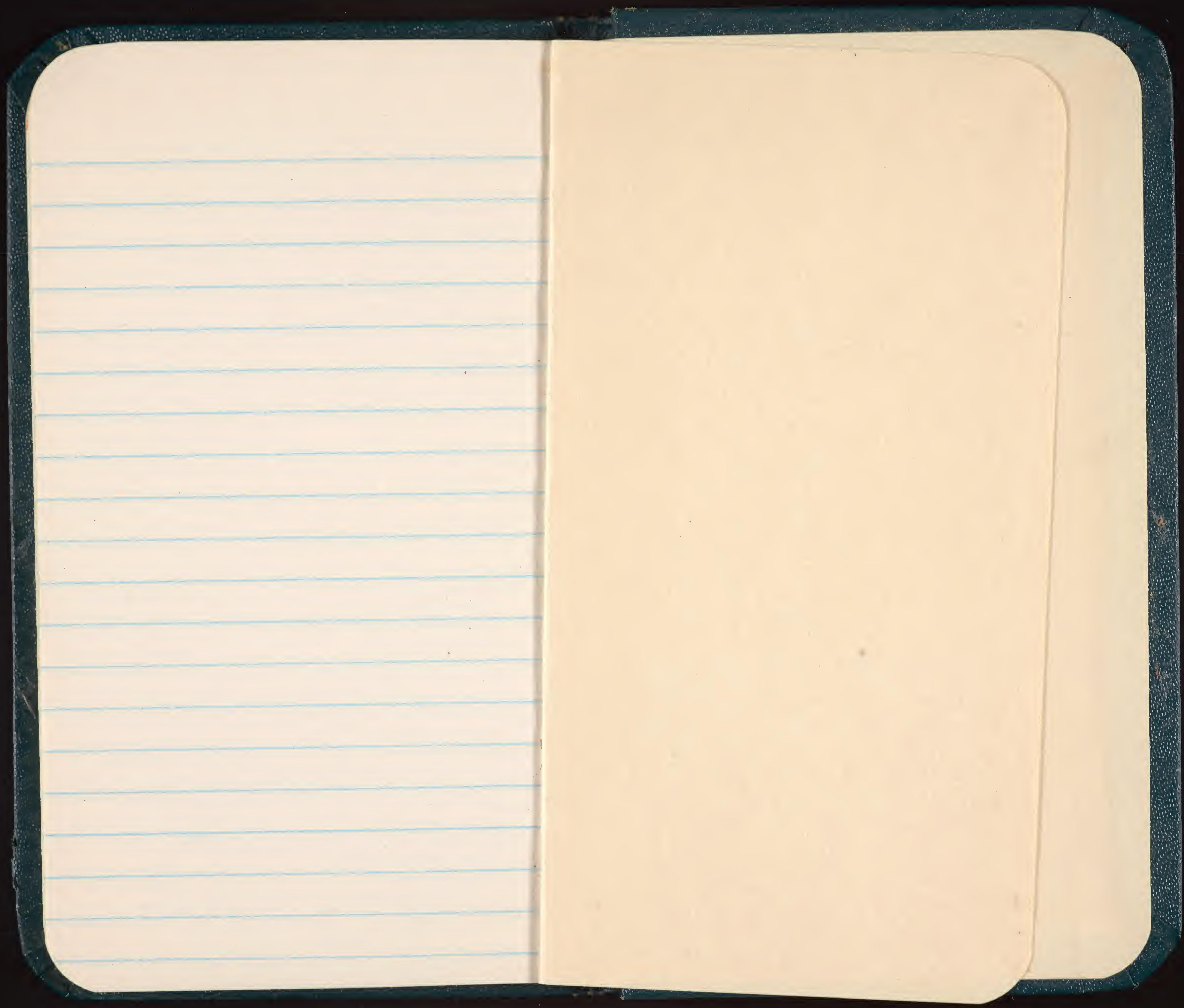
" " 96279 ✓

95389 ✓

5-21-15
66

RT 1 on ground 110' TERRA
BTC 2 over camp







7530-222-0078
FEDERAL SUPPLY SERVICE

GPO 048-16-78124-2

Memoranda

SIC 15
Howland
15-205cpT 1966

John H. Fitch
SIC# 15

NO ADD

✓ COKH

Done 8/16/68

BANDS ISSUED

16 September Nocturnal Banding

863-52001-52500 used

17 September Nocturnal Banding

Bands issued to Walter Bulmer

BANDS ISSUED

NEW BANDINGS16 September 1966

1.) 863-52001-52500 Imm. Sooty Terns

17 September 1966

2.) 737-81601 ♀

Lesser Frigate
" "

02 ♀ on small chick

03 ♀ sitting next to chick " "

04 ♀ on small chick " "

05 ♀ on egg " "

06 ♀ on egg " "

07 ♂ on egg " "

08 ♀ with naked chick " "

09 ♂ with chick " "

10 ♀ with chick " "

11 ♀ sitting next to chick " "

12 ♂ on small chick " "

13 ♀ on egg " "

14 ♀ sitting lft. from chick " "

15 ♂ on egg " "

16 ♂ on egg " "

17 ♂ on chick " "

18 ♀ on egg " "

NEW BANDING

17 September (continued) 1966

737-81619 ♂ with chick Lesser Frigate

- | | | | | |
|----|---|----------------|---|---|
| 20 | ♂ | on egg | " | " |
| 21 | ♂ | on egg | " | " |
| 22 | ♂ | on egg | " | " |
| 23 | ♂ | on egg | " | " |
| 24 | ♀ | on egg | " | " |
| 25 | ♂ | on egg | " | " |
| 26 | ♀ | on small chick | " | " |
| 27 | ♂ | on egg | " | " |
| 28 | ♂ | on egg | " | " |
| 29 | ♀ | on small chick | " | " |
| 30 | ♂ | on egg | " | " |
| 31 | ♂ | on egg | " | " |
| 32 | ♀ | on egg | " | " |
| 33 | ♂ | on naked chick | " | " |
| 34 | ♂ | on egg | " | " |
| 35 | ♀ | on egg | " | " |
| 36 | ♂ | on egg | " | " |
| 37 | ♀ | on naked chick | " | " |
| 38 | ♂ | on egg | " | " |

Page 3

NEW BANDING

17 September (continued) 1966

- 737-81639 ♂ on naked chick Lesser Frigate
 40 ♀ on egg " "
 41 ♂ on egg " "
 42 ♀ on egg " "
 43 ♂ on egg " "
 44 ♀ on egg " "
 45 ♀ on egg " "
 46 ♂ on naked chick " "
 47 ♂ on egg " "
 48 ♂ on egg " "
 49 ♀ on egg " "
 50 ♀ on egg " "
 51 ♂ on egg " "
 52 ♂ with chick " "
 53 ♂ on egg " "
 54 ♀ on egg " "
 55 ♂ on egg " "
 56 ♂ on egg " "
 57 ♀ on egg " "
 58 ♀ on chick " "

Page 4

NEW BANDING

17 September (continued) 1966

- 737-81659 ♂ on egg Lesser Frigate
 60 ♂ on egg " "
 61 ♀ on egg " "
 62 ♀ on egg " "
 63 ♀ on egg " "
 64 ♂ on egg " "
 65 ♂ on egg " "
 66 ♀ on egg " "
 67 ♀ with chick " "
 68 ♀ on naked chick " "
 69 ♂ on naked chick " "
 70 ♀ on naked chick " "
 71 ♂ on egg " "
 72 ♂ on hatching egg " "
 73 ♀ on chick " "
 74 ♀ on egg " "
 75 ♂ on egg " "
 76 ♂ sitting near large chick " "
 77 ♀ on egg " "
 78 ♂ on egg " "

Page 5

NEW BANDING

17 September (continued) 1966

737-81679 ♀ on egg Lesser Frigate

80 ♀ on egg " "

81 ♂ on egg " "

82 ♀ on egg " "

83 ♀ sitting ^{chick} near " "

84 ♂ on egg " "

85 ♂ on egg " "

86 ♀ on egg " "

87 ♂ on naked chick " "

88 ♂ on egg " "

89 ♀ on egg " "

90 ♂ on egg " "

91 ♂ with chick " "

92 ♀ with naked chick " "

93 ♂ on egg " "

94 ♀ on egg " "

95 ♂ on egg " "

96 ♀ with naked chick " "

97 ♂ on egg " "

98 ♀ on egg " "

Page 6

NEW BANDING

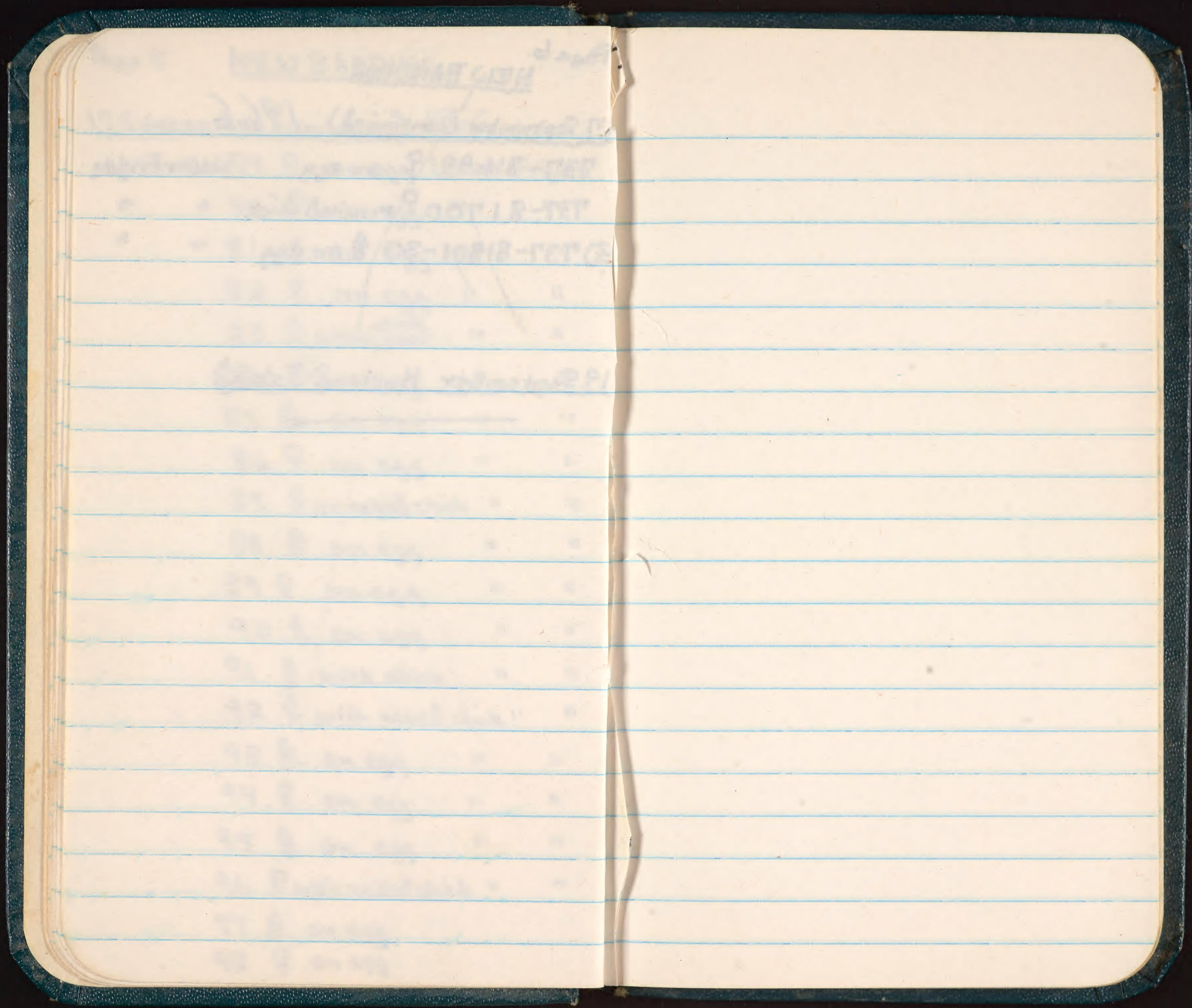
17 September (continued) 1966

737-81699 ♀ on egg Lesser Frigate

737-81700 ♀ on naked chick " "

30737-81801-30 ♂ on egg " "

19 September Howland Island



Brown Booby

Blue-faced Booby

Sooty Terns

Bristle Thighed Curlew

16 Sept. 66 Howland

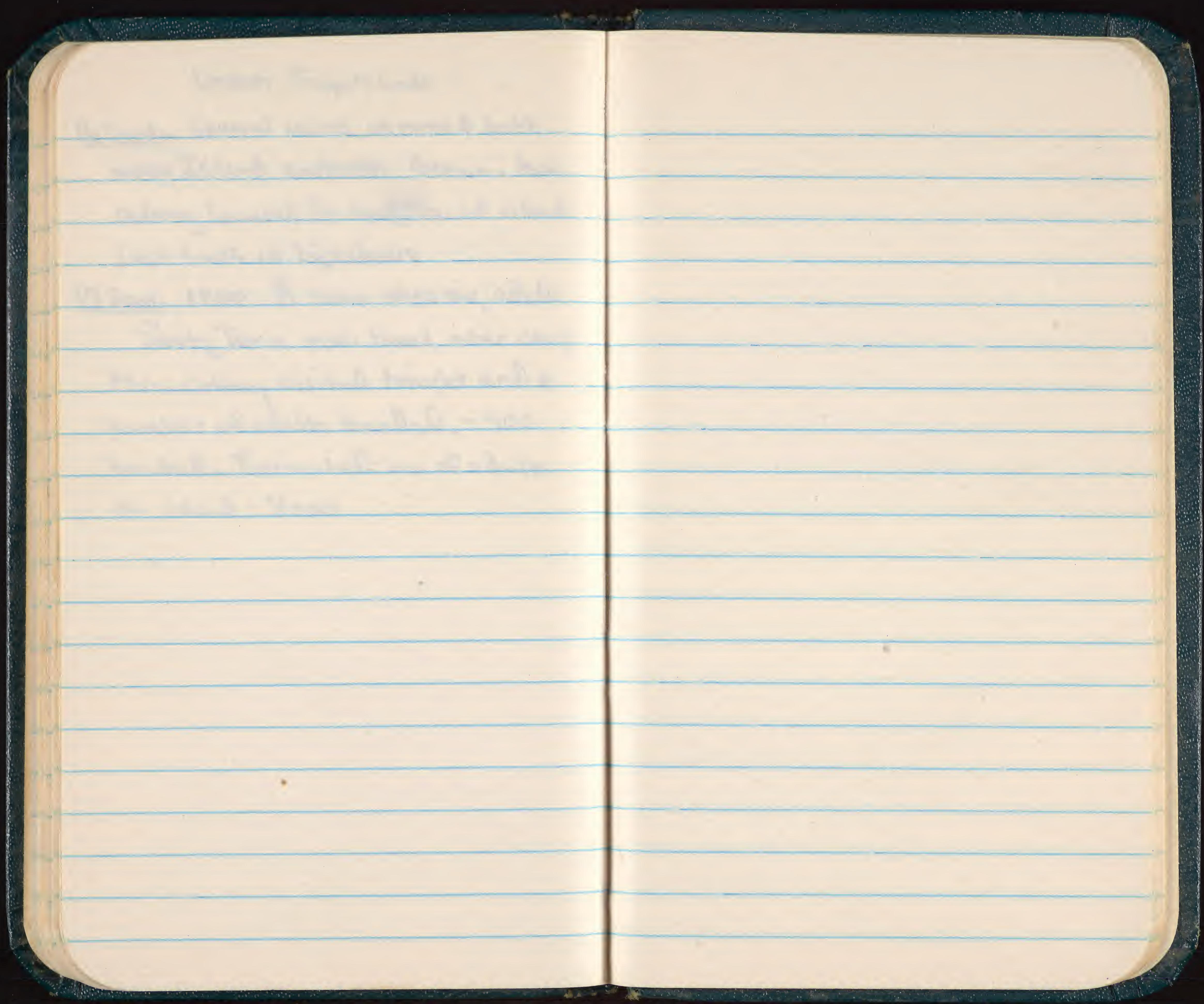
One flushed from Tribulus - ^{Boerhavia} Engross

Type situation in N. end Island, another
Plastered same area. Bob Tuxson and
Chris Thompson report sighting 3.

Lesser Frigate birds

16 Sept. Several swirls observed both over Island and over Ocean. Main colony located in ~~middle~~ of island just south of Lighthouse

17 Sept. 1800 ♂ seen chasing adult Sooty Tern over beach near camp. Main colony visited tonight and a number of adults banded. - 400 banded. Estimated no. of adults on island: 8000



Mammal Survey of Howland

15 Sept. 1966 Northwest part of island -
cat sighted at night about 9:30 P.M.

16 Sept. 1966 2 skeletons of cats
discovered - one cat skull had
holes in it, other cat apparently
died a natural death. Frank
Smith sighted a mouse (Mus musculus?)
in Sooty Tern colony on North
central part of Howland. It
ran into a burrow soon after
he saw it in Tribulus-Boehavia
habitat.

Sept. 20 1966 Paul Woodward reports
sighting a cat this morning.
Mouse traps (10 each time) were
set out on the 17th and 19th but
with no luck

Lizard Survey Howland

15 September 1966 A number of
Skinks and geckos sighted; former
mainly Alopoglossus and latter mainly
Nourning Geckos. In a brief survey
of N.W.-part of island a total of
52 herps (31 geckos and 21 skinks)
were sighted. - 2 geckos and later 2
more were collected off Emelia Erhart
Memorial lighthouse and 1 skink off
ruins of the old town.

16 Sept. 1966 Several skinks were
collected and a number observed during
a booby survey of the Northern part of
the Island. A number of skinks were
seen on the lighthouse.

Identification - Plants

Lepturus repens: grass with spike

Digitaria pacifica: grass - hairy leaves

Fimbristylis cymosa - sedge

Fleurya ruderalis - erect herb red flower

Boerhaavia tetrandra: vine like herb

Pisonia: massive trunk soft wood flowers

Portulaca: robust stems + large yellow

^{white flower?} *Sesuvium*: tangled mat fleshy stems - ^{clocks} flowers

Tribulus: trailing herb - silky leaves, yellow

Euphorbia: low herbs

~~Ipomoea~~ *Ipomoea* - flowers

Messerschmidia: tree - rosette leaves

Scaevola: coarse branching shrub

Gekkonidae

Lepidodactylus lugubris : Mourning Gecko

Snout-vent : 44 mm. tail 41 mm.
Small, pale - black spots, chin shield
Granular near rim - throat pouches

Hemiphyllodactylus typus : Tree Gecko

Snout-vent : 60 mm., tail : 60 mm.
brown w. white spots, no chin shields

Gehyra mutilata : Stump-toed

Elongate chin shields, divided lamellae
transverse plates, pale w large
dark eyes.

Hemidactylus garnoti

7530-222-0078
FEDERAL SUPPLY SERVICE

GPO 643-16-73121-3